

CAPS Survey Report

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| Year: | 2011 |
| State: | Kansas |
| Cooperative Agreement Name: | Spotted Knapweed (<i>Centaurea stoebe</i> L.) biological control using the lesser knapweed flower weevil (<i>Larinus minutus</i>) and the knapweed root weevil (<i>Cyphocleonus achates</i>) |
| Cooperative Agreement Number: | 11-8453-1227-CA and 10-8453-1227-CA extension |
| Project Funding Period: | January 1, 2011 – December 31, 2011 and January 1, 2010 – December 31, 2011 |
| Project Report: | CAPS Survey Report |
| Project Document Date: | January 1, 2011 – December 31, 2011 |
| Cooperators Project Coordinator: | Laurinda Ramonda |
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|-----------------------------------|-------------------------------------|
| Quarterly Report | <input type="checkbox"/> |
| Semi-Annual Accomplishment Report | <input type="checkbox"/> |
| Annual Accomplishment Report | <input checked="" type="checkbox"/> |

A. Write a brief narrative of work accomplished. Compare actual accomplishments to objectives established as indicated in the work plan. When the output can be quantified, a computation of cost per unit is required when useful.*

KDA full time – Darin Banks provided release and visual survey.

Seasonal staff – Brian Brunkow did visual survey.

- June 21, 2011 – Darin Banks checked for previously released knapweed flower weevils and knapweed root weevils. Spotted knapweed density data: 1 meter by 1 meter plot, 17 stems and 9 rosettes. There was no evidence of damage or weevils.
- July 13, 2011 – Jeff Vogel released 1,200 knapweed flower weevils (*Larinus minutus*) received from the Colorado Department of Agriculture at the Nemaha County site.
- August 1, 2011 – Seasonal staff, Brian Brunkow, started visual delimiting surveys on known spotted knapweed infestations.
- August 12, 2011 – Visual surveys completed by Brian Brunkow.
- August 18, 2011 – Darin Banks released 2,000 knapweed root weevils (*Cyphocleonus achates*) received from WeedBusters BioControl.
- September 2, 2011 – Darin Banks released 700 knapweed root weevils (*Cyphocleonus achates*) received from the Colorado Department of Agriculture. Also at this time larvae feeding exit holes were observed from two spotted knapweed plants over a 50 meter by 50 meter area.

| Funding Amount (USDA) | Funding Amount (KDA) | Total Number of Biological Control Agents and Visual Surveys | Cost Per Unit |
|-----------------------|----------------------|--|------------------|
| Proposed = \$4,723 | Proposed = \$3,329 | Proposed = 1,400 insects and 100 visuals | Proposed= \$5.37 |
| Actual = \$4,723 | Actual = \$3,329 | Actual = 1,200 flower weevils, 2,700 root weevils and 397 visual surveys | Actual =\$1.87 |

1. Survey methodology (trapping protocol):

| | Common Name | Scientific Name |
|--------------|-------------------------|-----------------------------|
| Pest: | Knapweed Flower Weevils | <i>Larinus minutus</i> |
| | Knapweed Root Weevils | <i>Cyphocleonus achates</i> |
| | Spotted Knapweed | <i>Centaurea stoebe</i> L. |

| | Proposed | Actual |
|------------------------------------|-----------------|--|
| Sites (Locations): | 6 | 8 |
| Visual inspections: | 100 | 397 |
| Sites (Locations): | 1 | 1 |
| Biological Control Release: | 1,400 | 1,200 - knapweed flower weevils (<i>Larinus minutus</i>) 2,700 – knapweed root weevils (<i>Cyphocleonus achates</i>) 3,900 – Total biocontrol insects released |

| Visual Inspections | Proposed | Actual |
|----------------------------|---|---|
| Number of Counties: | 6 | 8 |
| Counties: | Douglas, Franklin, Johnson, Miami, Shawnee and Nemaha | Douglas, Franklin, Jackson, Johnson, Marshall, Miami, Nemaha and Pottawatomie |

2. **Survey dates:**

| | Proposed | Actual |
|----------------------|---------------------|-----------------------------|
| Survey Dates: | June – October 2011 | June 21 – September 2, 2011 |

3. **Benefits and results of survey:**

| | Positive | Negative | Total Number |
|-----------------------------------|--------------------------------|-----------------|--------------------------------|
| Biological Control Release | 1,200 – knapweed flower weevil | 0 | 1,200 - knapweed flower weevil |
| | 2,700 - knapweed root weevil | 0 | 2,700 - Knapweed root weevil |

4. **Database submissions:**

Records Submitted to NAPIS

| Biocontrol Insects | Positive | Negative | Total |
|--|-----------------|-----------------|--------------|
| July 12, 2011 - Lesser Knapweed Flower Weevil (<i>Larinus minutus</i>) Nemaha County | 1 | 0 | 1 |
| August 19, 2011 - Knapweed Root Weevil (<i>Cyphocleonus achates</i>) Nemaha County | 1 | 0 | 1 |
| September 2, 2011 - Knapweed Root Weevil (<i>Cyphocleonus achates</i>) Nemaha County | 1 | 0 | 1 |
| State Total | 3 | 0 | 3 |

Pest: SPOTTED KNAPWEED

| County | Positive | Negative |
|--------------------|-----------------|-----------------|
| Douglas | 2 | 36 |
| Franklin | 0 | 15 |
| Jackson | 0 | 2 |
| Johnson | 4 | 50 |
| Marshall | 0 | 25 |
| Miami | 0 | 26 |
| Nemaha | 23 | 208 |
| Pottawatomie | 0 | 6 |
| | | |
| State Total | 29 | 368 |

B. If appropriate, explain why objectives were not met.*

- Jeff Vogel provided biocontrol release of knapweed flower weevils because Darin Banks was unavailable.
- No data points were taken for Shawnee County. Only visual inspection of existing area of spotted knapweed.

**C. Where appropriate, explain any cost overruns or unobligated funds in excess of \$1,000.

**indicates information is required per 7 CFR 3016.40 and 7 CFR 3019.51*

Approved and signed by

Cooperator

Date: _____

ADODR

Date: _____